

What is Claimed:

1. An automotive rear view mirror comprising: a mirror structure having a primary reflective surface and three secondary reflective surfaces; said mirror structure having a normal positionment wherein the primary reflective surface has a vertical orientation;

said primary reflective surface being flat in both the vertical plane and the horizontal plane, whereby the image generated by said primary reflective surface is undistorted;

said secondary reflective surfaces comprising a first relatively large reflective surface having a trapezoidal shape, and second and third relatively small reflective surfaces having triangular shapes;

said first trapezoidal reflective surface being contiguous to the primary reflective surface; said second and third triangular reflective surfaces being contiguous to said first trapezoidal reflective surface;

said first trapezoidal reflective surface having a curved convex curvature in the horizontal plane and a flat configuration in the vertical plane, whereby the image generated by said trapezoidal reflective surface is undistorted in the vertical plane;

said second triangular reflective surface extending downwardly from said trapezoidal

reflective surface; said third triangular reflective surface extending upwardly from said trapezoidal reflective surface; said second and third reflective surfaces having curved convex curvatures in the vertical plane.

2. The rear view mirror of claim 1, wherein said trapezoidal reflective surface forms a smooth uninterrupted continuation of the primary reflective surface.
3. The rear view mirror of claim 2, wherein said primary reflective surface is tangent to said trapezoidal reflective surface.
4. The rear view mirror of claim 1, wherein said second and third triangular surfaces form smooth uninterrupted continuations of said trapezoidal reflective surface.
5. The rear view mirror of claim 4, wherein said trapezoidal reflective surface is tangent to said second and third convex triangular reflective surfaces.
6. The rear view mirror of claim 1, wherein said mirror structure is positionable within a vehicle behind the front windshield of the vehicle.
7. The rear view mirror of claim 1, wherein said mirror structure is positionable outside a vehicle on a front door of the vehicle.
8. An automotive rear view mirror comprising: a mirror structure having a primary reflective surface and three secondary reflective surfaces; said mirror structure having a normal positionment wherein the primary reflective surface has a vertical

orientation;

said primary reflective surface being flat in both the vertical plane and the horizontal plane, whereby the image generated by said primary reflective surface is undistorted;

said secondary reflective surfaces comprising a first relatively large reflective surface, and second and third relatively small reflective surfaces;

said first reflective surface being contiguous to the primary reflective surface; said second and third reflective surfaces being contiguous to said first reflective surface;

said first secondary reflective surface having a curved convex curvature in the horizontal plane, and a flat configuration in the vertical plane, whereby the image generated by said first reflective surface is undistorted in the vertical plane.

said second reflective surface extending downwardly from said first reflective surface; said third reflective surface extending upwardly from said first reflective surface; said second and third reflective surfaces having curved convex curvatures in the vertical plane.

9. The rear view mirror of claim 8, wherein said first secondary reflective surface forms a smooth uninterrupted continuation of the primary reflective surface.
10. The rear view mirror of claim 9, wherein said primary reflective surface is tangent to said first secondary reflective surface.

11. The rear view mirror of claim 8, wherein said second and third secondary reflective surfaces form smooth uninterrupted continuations of said first secondary reflective surface.
12. The rear view mirror of claim 11, wherein said first secondary reflective surface is tangent to said second and third convex reflective surfaces.
13. The rear view mirror of claim 8, wherein said mirror structure is positionable within a vehicle behind the front windshield of the vehicle.
14. The rear view mirror of claim 8, wherein said mirror structure is positionable outside a vehicle on a front door of the vehicle.